



UNIONE EUROPEA
Fondo sociale europeo
Fondo europeo di sviluppo regionale

ISTITUTO DI ISTRUZIONE SUPERIORE "F. DE SARLO - G. DE LORENZO"

Erasmus+ KA122 PROJECT O.P.E.N.N.E.S.S.

Invite Expert

Prof. Walther Rahbek – Denmark



November 13-18 - 2023



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Lectures overview

3-CAT (16 students)

"Geometry used for a rescue operation at sea"

1. Theoretic lecture on basic geometric formulas used in surveyor problems in land and at sea (20 min)
2. Vocabularies – main words and expressions used in geometry (paper hand-out) (10 min)
3. Cooperate Learning (CL): Groups of two students. Present the formulas to each other – explain in English (15 min)
4. "Rescuing Giorgio at sea" Case intro (10 min)
5. Group work (3 persons) – how will you solve this rescue operation from a geometrical, practical and ethical angle? (30-60 min)
6. Presentation – each group present their conclusions for the class – in English (45 min)
7. Discussion in class: This theory, geometry – where can we use it in real life? What are your plans for the future?

Duration: 4 hours



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Lectures overview

5-CAT (9 students)

"Geometry used for a rescue operation at sea"

1. Theoretic lecture on basic geometric formulas used in surveyor problems in land and at sea (30 min)
2. Vocabularies – main words and expressions used in geometry (paper hand-out) (10 min)
3. Cooperate Learning (CL): Groups of three students. Present the formulas to each other – explain in English (15 min)
4. "Rescuing Giorgio at sea" Case intro (10 min)
5. Group work (3 persons) – how will you solve this rescue operation from a geometrical, practical and ethical angle? (30-60 min)
6. Presentation – each group present their conclusions for the class – in English (45 min)
7. Discussion in class: This theory, geometry – where can we use it in real life? What are your plans for the future?

Duration: 4 hours

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Lectures overview

3C - SIA (12 students)

"Build your own web site"

1. Theoretic lecture on basic website production (20 min)
2. Vocabularies – group work (students of three) – "Which words are the most used on websites in English?" (30 min)
3. Discussion in class (10 min)
4. Search on the internet. Find two examples of GOOD websites and two of BAD websites. Explain why! (30 min)
5. Now make your own web site content (groups with three students). Describe how you want to design, build and present the user interface (60 min)
6. Presentation in class (30 min)

Duration: 3 hours

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Lectures overview

4B-C AFM (20 students)

"Start your own company"

1. Presenting the BMC model and watching Youtube video (30 min)
2. Vocabularies – group work (students of four) – "Which words are the most used on Business economics?" (20 min)
3. Discussion in class (30 min)
4. Brainstorming: Each student think of your own business idea (10 min) – yellow post-it stickers
5. Teacher collect stickers and group after thematics. Formation of groups (10 min)
6. Group work: Describe the target group of your company (WHO) and the product/service (WHAT) (60 min)
7. Discussion in Class (30 min)
8. Define your management team. Who will fill out which roles (Theory about role models etc. In organizations) 30 min
9. Discussion in class (20 min)
10. Income and expenditures – what is accounting all about?
11. Make the budget of your own company!

Duration: 4 hours

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Lectures overview

4B-C AFM (20 students)

"Population growth and pollution?"

1. Presentation on the UN report on population growth (20 min)
2. Students will read the conclusions in the report (individual work) (10 min)
3. In groups of 4 students: Discuss the UN report – what do you think? (20 min)
4. Presentation (one person per group present) (20 min)
5. Statistics on the workforce and unemployment is presented (Italy and Denmark) (10 min)
6. How to make regression in Excel (20 min)
7. Data processing in Excel (students on their own computers) (30 min)
8. Forecasting is it possible? Class discussion. (30 min)

Duration: 3 hours

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Teacher Lecture overview

"CLIL"

1. Presentation of CLIL, main principles and theory (CLIL4U guidebook, EU)
2. What are your own experience so far with CLIL?
3. In groups: Make a plan for your next CLIL lecture with your class (this week)
4. Discussion: How will this work? What are your fears and obstacles?
5. PPT presentations – good and bad – some tips and ideas, examples.
6. Make your own PPT presentation for your CLIL lecture
7. How do you make a good presentation (tricks and ideas)?
8. (Teachers to present their PPT in own class and do the CLIL lesson)
9. How did it go? Discussions
10. How can we differentiate in the classroom during CLIL using the Bloom tacsomeny?
11. My own experience from grammar school, high school and university teaching
12. What is going on at the Vocational school in my city (TechCollege Aalborg)?
13. Possibilities for cooperation in the future?

Duration: 10 hours



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